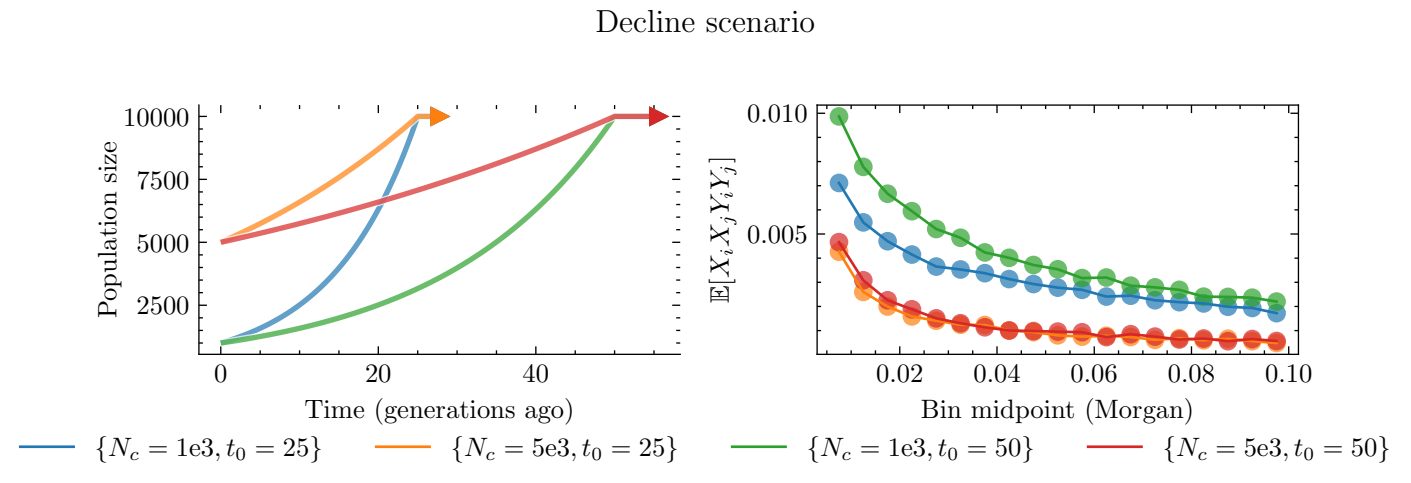
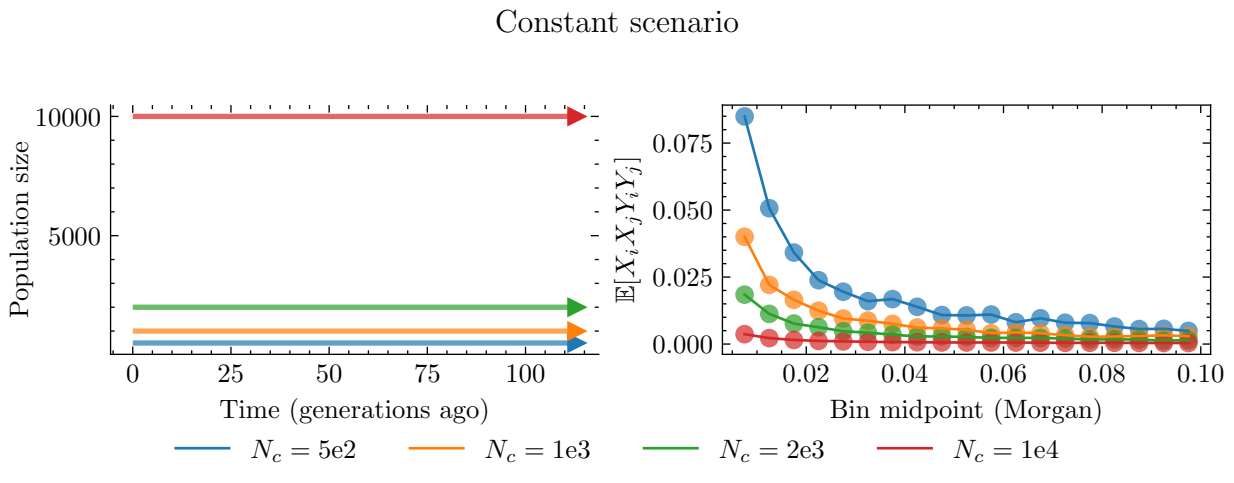
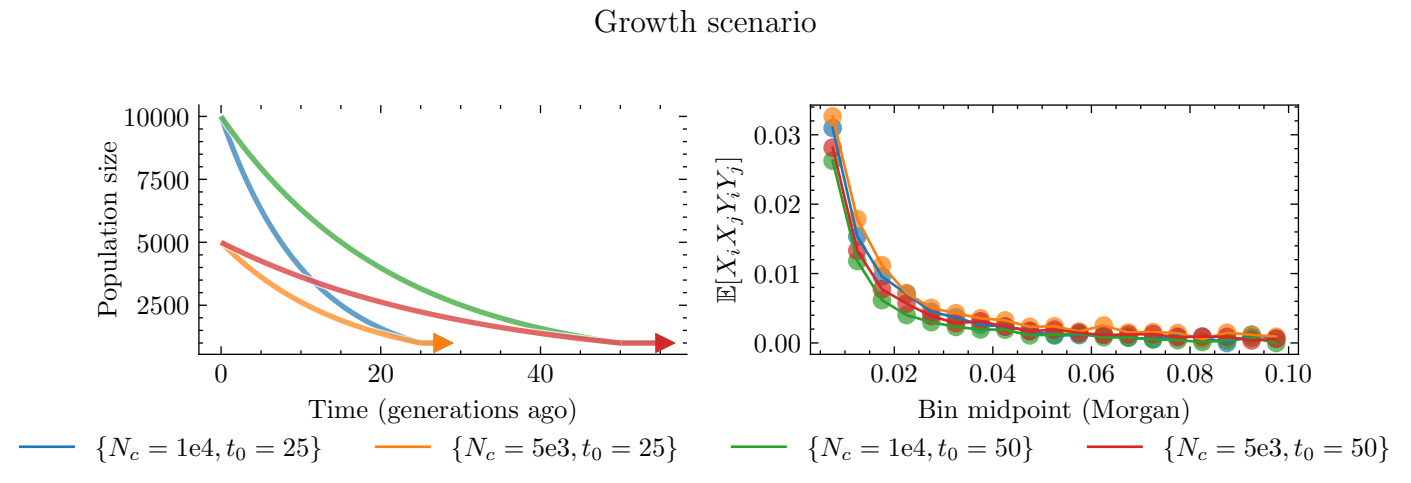
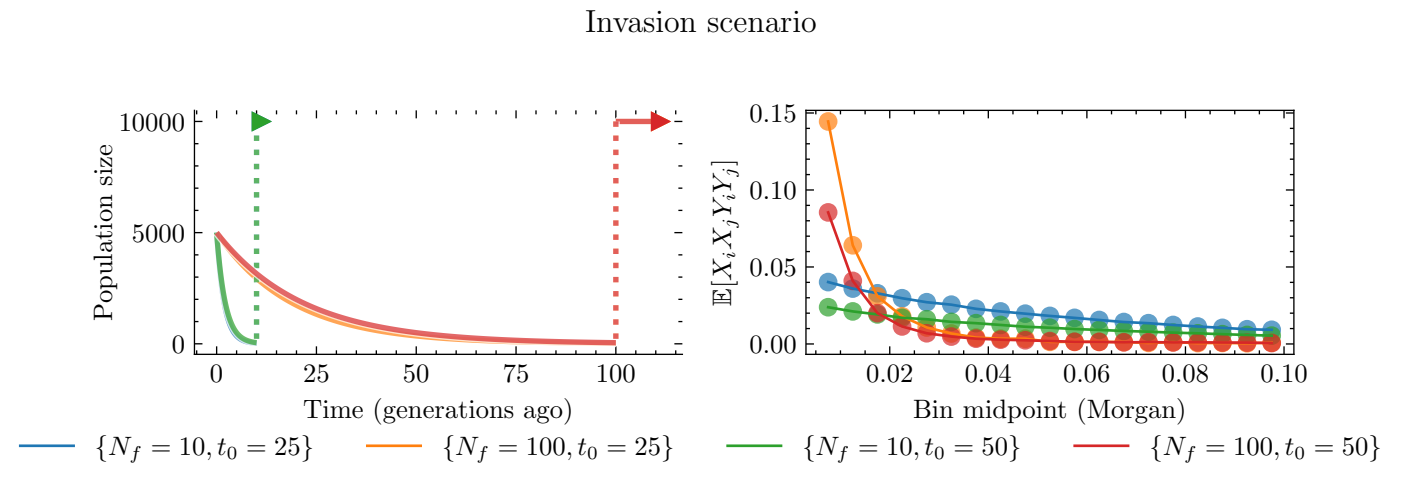
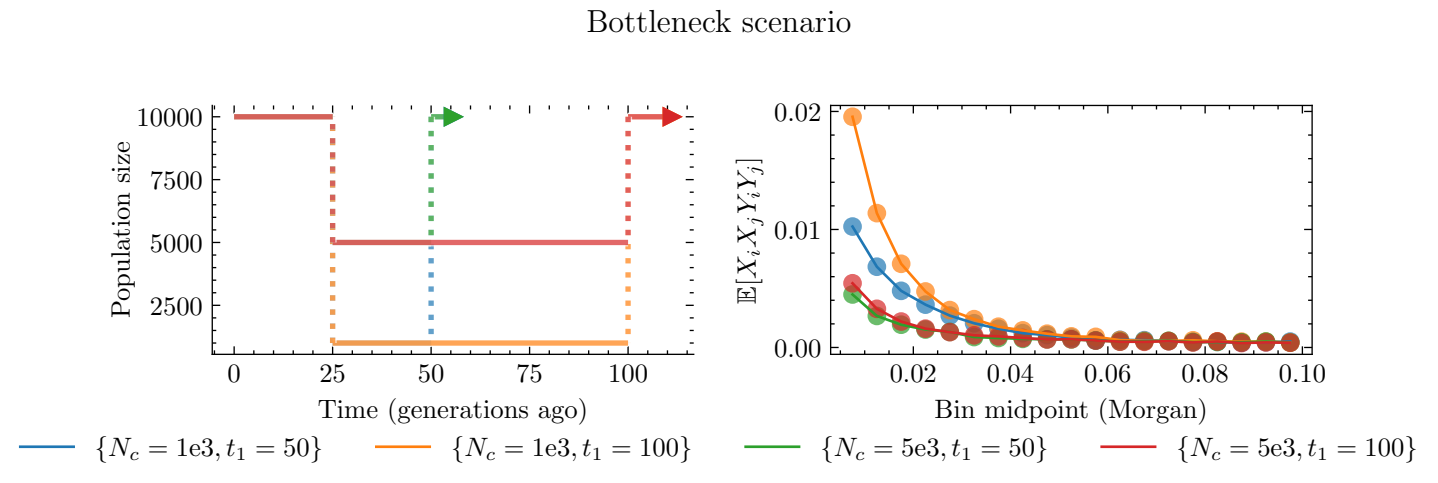
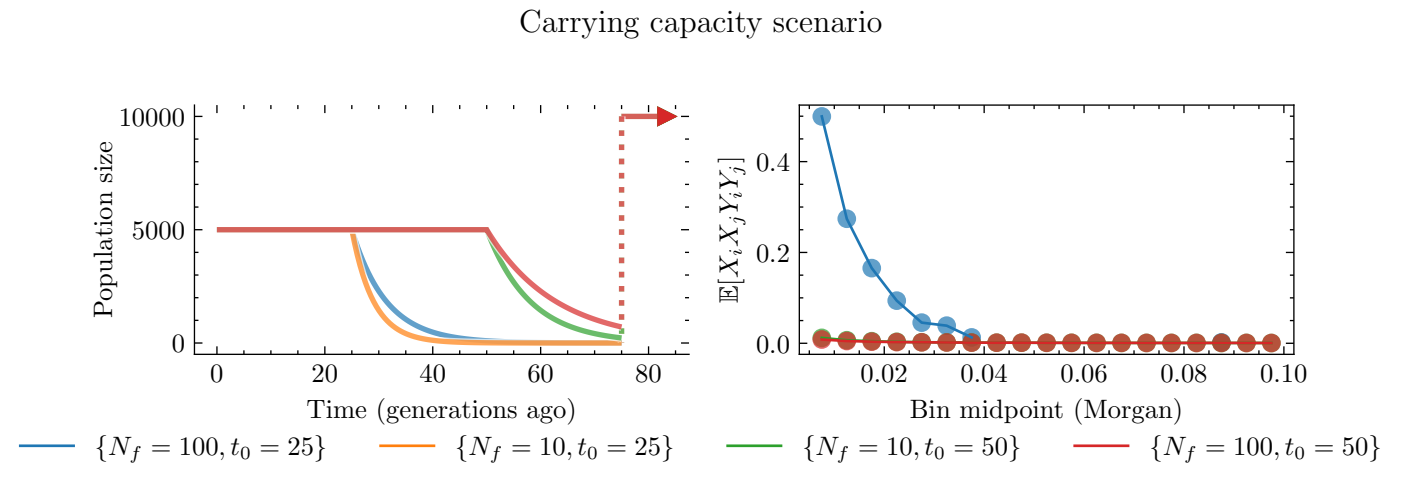

Decline scenario
Population size
10000
7500
5000
2500
0
20
40
Time (generations ago)
$\mathbb{E}[X_i X_j Y_i Y_j]$
0.010
0.005
0.02
0.04
0.06
0.08
0.10
Bin midpoint (Morgan)
$\{N_c = 1\text{e}3, t_0 = 25\}$
$\{N_c = 5\text{e}3, t_0 = 25\}$
$\{N_c = 1\text{e}3, t_0 = 50\}$
$\{N_c = 5\text{e}3, t_0 = 50\}$


Constant scenario
10000
5000
Population size
0
25
50
75
100
Time (generations ago)
$\mathbb{E}[X_i X_j | Y_i Y_j]$
0.075
0.050
0.025
0.000
0.02
0.04
0.06
0.08
0.10
Bin midpoint (Morgan)
$N_c = 5e2$
$N_c = 1e3$
$N_c = 2e3$
$N_c = 1e4$


Growth scenario
Population size
10000
7500
5000
2500
0
20
40
Time (generations ago)
$\mathbb{E}[X_i X_j Y_i Y_j]$
0.03
0.02
0.01
0.00
0.02
0.04
0.06
0.08
0.10
Bin midpoint (Morgan)
$\{N_c = 1e4, t_0 = 25\}$
$\{N_c = 5e3, t_0 = 25\}$
$\{N_c = 1e4, t_0 = 50\}$
$\{N_c = 5e3, t_0 = 50\}$


Invasion scenario
Population size
10000
5000
0
0
25
50
75
100
Time (generations ago)
$\mathbb{E}[X_i X_j Y_i Y_j]$
0.15
0.10
0.05
0.00
0.02
0.04
0.06
0.08
0.10
Bin midpoint (Morgan)
$\{N_f = 10, t_0 = 25\}$
$\{N_f = 100, t_0 = 25\}$
$\{N_f = 10, t_0 = 50\}$
$\{N_f = 100, t_0 = 50\}$


Bottleneck scenario
Population size
10000
7500
5000
2500
0
25
50
75
100
Time (generations ago)
$\mathbb{E}[X_i X_j Y_i Y_j]$
0.02
0.01
0.00
0.02
0.04
0.06
0.08
0.10
Bin midpoint (Morgan)
$\{N_c = 1e3, t_1 = 50\}$
$\{N_c = 1e3, t_1 = 100\}$
$\{N_c = 5e3, t_1 = 50\}$
$\{N_c = 5e3, t_1 = 100\}$


Carrying capacity scenario
Population size
10000
5000
0
0
20
40
60
80
Time (generations ago)
$\mathbb{E}[X_i X_j Y_i Y_j]$
0.4
0.2
0.0
0.02
0.04
0.06
0.08
0.10
Bin midpoint (Morgan)
$\{N_f = 100, t_0 = 25\}$
$\{N_f = 10, t_0 = 25\}$
$\{N_f = 10, t_0 = 50\}$
$\{N_f = 100, t_0 = 50\}$